# PATENT Attorney Docket No. 14448-00017

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application	on of: LAU, Lester F.	) CERTIFICATE OF MAILING BY EXPRESS MAIL
		) "Express Mail" Mailing Label Number
Continua	tion of:	)EL928527220 US
Serial No	.: 09/142,569	) Date of Deposit <u>January 22, 2002</u>
Filed:	April 2, 1999	) I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to the
For:	EXTRACELLULAR MATRIX	Commissioner of Patents and Trademarks, Attention: Assistant Commissioner for Patents, Washington, D.C.
	SIGNALLING MOLECULES	) 20231
Group Aı	t Unit: 1632	Theresa A. Barnstable (Typed or printed name of person mailing)  Mesosa G. Baunstable
Examine	r: J. T. Woitach	(Signature of person mailing)

### STATEMENT PURSUANT TO 37 C.F.R. § 1.821(g)

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

I hereby state that the content of the paper copy of the Sequence Listing, and the computer readable copy of the Sequence Listing, submitted herewith in accordance with 37 C.F.R. §§1.821-1.825, are the same and include no new matter.

Respectfully submitted,

By:

David W. Clough, Ph.D. Registration No. 36,107 Attorney for Applicants

January 22, 2002 KATTEN MUCHIN ZAVIS 525 West Monroe Street, Suite 1600 Chicago, Illinois 60661-3693

Telephone: 312/902-5464

Fax: 312/577-8736



OIPE

RAW SEQUENCE LISTING

SEQUENCE LISTING

DATE: 02/14/2002

PATENT APPLICATION: US/10/053,753

TIME: 16:04:11

Input Set : A:\50013825\_1.RTF

Output Set: N:\CRF3\02142002\J053753.raw

### ENTERED

#### 4 (1) GENERAL INFORMATION: 6 (i) APPLICANT: Lau, Lester F. 8 (ii) TITLE OF INVENTION: Extracellular Matrix Signalling Molecules 10 (iii) NUMBER OF SEQUENCES: 17 12 (iv) CORRESPONDENCE ADDRESS: 13 (A) ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun (B) STREET: 6300 Sears Tower, 233 South Wacker Drive 14 15 (C) CITY: Chicago (D) STATE: Illinois 16 17 (E) COUNTRY: United States of America 18 (F) ZIP: 60606-6402 20 (V) COMPUTER READABLE FORM: 21 (A) MEDIUM TYPE: Floppy disk 22 (B) COMPUTER: IBM PC compatible 23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 26 (vi) CURRENT APPLICATION DATA: C--> 27 (A) APPLICATION NUMBER: US/10/053,753 C--> 28 (B) FILING DATE: 22-Jan-2002 29 (C) CLASSIFICATION: 31 (viii) ATTORNEY/AGENT INFORMATION: 32 (A) NAME: Clough, David W. 33 (B) REGISTRATION NUMBER: 36,107 34 (C) REFERENCE/DOCKET NUMBER: 28758/33766 (ix) TELECOMMUNICATION INFORMATION: 36 37 (A) TELEPHONE: 312/474-6300 38 (B) TELEFAX: 312/474-0448 39 (C) TELEX: 25-3856 41 (2) INFORMATION FOR SEQ ID NO: 1: 43 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1480 base pairs 44 45 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 46 47 (D) TOPOLOGY: linear 49 (ii) MOLECULE TYPE: protein 51 (ix) FEATURE: 52 (A) NAME/KEY: CDS 53 (B) LOCATION: 180..1316 55 (ix) FEATURE: 56 (A) NAME/KEY: misc\_feature 57 (D) OTHER INFORMATION: "Mouse cyr61 cDNA coding sequence" 59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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65 CTCGCCGGCT TGTTGGTTCT GTGTCGCCGC GCTCGCCCCG GTTCCTCCTG CGCGCCACA	179
67 ATG AGC TCC AGC ACC TTC AGG ACG CTC GCT GTC GCC GTC ACC CTT CTC	227
68 Met Ser Ser Ser Thr Phe Arg Thr Leu Ala Val Ala Val Thr Leu Leu	
69 1 5 10 15	
71 CAC TTG ACC AGA CTG GCG CTC TCC ACC TGC CCC GCC GCC TGC CAC TGC	275
72 His Leu Thr Arg Leu Ala Leu Ser Thr Cys Pro Ala Ala Cys His Cys	
73 20 25 30	
75 CCT CTG GAG GCA CCC AAG TGC GCC CCG GGA GTC GGG TTG GTC CGG GAC	323
76 Pro Leu Glu Ala Pro Lys Cys Ala Pro Gly Val Gly Leu Val Arg Asp	020
77 35 40 45	
79 GGC TGC GGC TGT AAG GTC TGC GCT AAA CAA CTC AAC GAG GAC TGC	371
80 Gly Cys Gly Cys Lys Val Cys Ala Lys Gln Leu Asn Glu Asp Cys	3/1
81 50 55 60	
83 AGC AAA ACT CAG CCC TGC GAC CAC ACC AAG GGG TTG GAA TGC AAT TTC	410
84 Ser Lys Thr Gln Pro Cys Asp His Thr Lys Gly Leu Glu Cys Asn Phe	419
05 65	
75	
87 GGC GCC AGC TCC ACC GCT CTG AAA GGG ATC TGC AGA GCT CAG TCA GAA	467
88 Gly Ala Ser Ser Thr Ala Leu Lys Gly Ile Cys Arg Ala Gln Ser Glu	
89 85 90 95	
91 GGC AGA CCC TGT GAA TAT AAC TCC AGA ATC TAC CAA AAC GGG GAA AGC	515
92 Gly Arg Pro Cys Glu Tyr Asn Ser Arg Ile Tyr Gln Asn Gly Glu Ser	
93 100 105 110	
95 TTC CAG CCC AAC TGT AAA CAC CAG TGC ACA TGT ATT GAT GGC GCC GTG	563
96 Phe Gln Pro Asn Cys Lys His Gln Cys Thr Cys Ile Asp Gly Ala Val	
97 115 120 125	
99 GGC TGC ATT CCT CTG TGT CCC CAA GAA CTG TCT CTC CCC AAT CTG GGC	611
100 Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly	
101 130 135 140	•
103 TGT CCC AAC CCC CGG CTG GTG AAA GTC AGC GGG CAG TGC TGT GAA GAG	659
104 Cys Pro Asn Pro Arg Leu Val Lys Val Ser Gly Gln Cys Cys Glu Glu	
105 145 150 155 160	
107 TGG GTT TGT GAT GAA GAC AGC ATT AAG GAC TCC CTG GAC GAC CAG GAT	707
108 Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Ser Leu Asp Asp Gln Asp	
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112 Asp Leu Leu Gly Leu Asp Ala Ser Glu Val Glu Leu Thr Arg Asn Asn	
113 180 185 190	
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116 Glu Leu Ile Ala Ile Gly Lys Gly Ser Ser Leu Lys Arg Leu Pro Val	003
117 195 200 205	
119 TTT GGC ACC GAA CCG CGA GTT CTT TTC AAC CCT CTG CAC GCC CAT GGC	851
120 Phe Gly Thr Glu Pro Arg Val Leu Phe Asn Pro Leu His Ala His Gly	031
121 210 215 220	
123 CAG AAA TGC ATC GTT CAG ACC ACG TCT TGG TCC CAG TGC TCC AAG AGC	900
124 Gln Lys Cys Ile Val Gln Thr Thr Ser Trp Ser Gln Cys Ser Lys Ser	899
105 005	
125 225 230 235 240 127 TGC GGA ACT GGC ATC TCC ACA CGA GTT ACC AAT GAC AAC CCA GAG TGC	0.47
- XW/ IOO GOA ACI GGC AIC ICC ACA CGA GTT ACC AAT GAC AAC CCA GAG TGC	947

Input Set : A:\50013825\_1.RTF

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	Cys	Gly	Thr	Gly	Ile 245	Ser	Thr	Arg	Val	Thr 250	Asn	Asp	Asn	Pro	G1u 255	Cys	
129	000	OMC.	CMC	2 2 2		አርር	ccc	<b>አ</b> ጥር	TGT		GTG	CGT	ССТ	TGT		CAA	995
137 TOT	720	LOU	Wal	T.vc	Glu	Thr	Ara	Tle	Cys	Glu	Val	Ara	Pro	Cys	Gly	Gln	
133	AIG	пеи	Val	260	OIG	1111	*** 9		265			,		270	-		
135	CCA	GTG	TAC		AGC	СТА	AAA	AAG	GGC	AAG	AAA	TGC	AGC	AAG	ACC	AAG	1043
136	Pro	Val	Tvr	Ser	Ser	Leu	Lvs	Lvs	Gly	Lys	Lys	Cys	Ser	Lys	Thr	Lys	
137	110	, 41	275				-1-	280	_	-	-	-	285	_			
139	AAA	TCC	CCA	GAA	CCA	GTC	AGA	TTT	ACT	TAT	GCA	GGA	TGC	TCC	AGT	GTC	1091
140	Lys	Ser	Pro	Glu	Pro	Val	Arg	Phe	Thr	Tyr	Ala	Gly	Cys	Ser	Ser	Val	
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143	AAG	AAA	TAC	CGG	CCC	AAA	TAC	TGC	GGC	TCC	TGC	GTA	GAT	GGC	CGG	TGC	1139
144	Lys	Lys	Tyr	Arg	Pro	Lys	Tyr	Cys	Gly	Ser	Cys	Val	Asp	Gly	Arg	Cys	
145	305					310					315					320	4405
147	TGC	ACA	CCT	CTG	CAG	ACC	AGA	ACT	GTG	AAG	ATG	CGG	TTC	CGA	TGC	GAA	1187
148	Cys	Thr	Pro	Leu	Gln	Thr	Arg	Thr	Val		Met	Arg	Phe	Arg	Cys	Glu	
149					325					330			a. a	<b></b>	335		1005
151	GAT	GGA	GAG	ATG	TTT	TCC	AAG	AAT	GTC	ATG	ATG	ATC	CAG	TCC	TGC	AAA	1235
	Asp	Gly	Glu		Phe	Ser	Lys	Asn	Val	Met	Met	шe	GIN	ser	Cys	ьys	
153				340			<b></b>		345	030	C C 3	mac	mma	350	CmC	<b>መእ</b> ር	1283
155	TGT	AAC	TAC	AAC	TGC	CCG	CAT	CCC	AAC	GAG	GCA	TCG	Dho	Ara	Tou	Tur	1205
	_	Asn		Asn	Cys	Pro	HIS		Asn	GIU	Ата	ser	365	AIG	цęц	1 7 1	
157		am.	355	3 3 111	C A C	N III C	CNC	360	TITIC	λCC	GAC	πаа		СТС	CAGG	GTTCCT	1336
									Phe				0100	010	CIICO	011001	
		370	Pne	ASII	ASP	116	375	цуз	rne	nrg	пор						
161	λСΨ		C C TT	GGAC	AGAG	GA G		GCAA	G CA	TCAT	GGAG	ACG	TGGG	TGG	GCGG	AGGATG	1396
165	AGI	GIGG GGTG	CCT CCT	ТССТ	CATT	CT T	GAGT.	AGCA	T TA	GGGT	ATTT	CAA	AACT	GCC	AAGG	GGCTGA	1456
					AGCG												1480
					FOR			NO:	2:								
171	• •				CE C												
172		•	· (	A) L	ENGT	н: 3	79 a	mino	aci	ds							
173			(	в) т	YPE:	ami	no a	cid									
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176					LE T	YPE:	pro	tein	ı								
178		(ix		ATUR				_									
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182		(Xi	) SE	QUEN	CE D	ESCR	IPTI	ON:	SEQ	א מד	10: 2	;; ⊼1-	1751	πhх	• T.a.ı	T.011	
			Ser	Ser			Arg	Tnr	. ren			. Ald	val	. 1111	. <u>Бе</u> й	Leu	
185	1		m1		5		T 0	Cox	, mh v	10		. λ1 <sub>=</sub>	. λ1a	C17.0			
		Leu	Thr			Ата	ьeu	. ser	25		PIC	AIC	AIC	30	)	cys	
188	i Dona		C1.	20		T 77.0	Cvc	ב וו			v Val	Gla	T.e.			, Asp	
		ь теп	. Giu		PIO	р пур	Cys	40		, 017	741	. 011	45		3	,	
191	. (1.	, Ctr			. Cvc	T.vc	. Val			Live	Glr	Leu			ı Asr	Cys	
193		- Cys 50		Cys	, суз	בעם	55					60			<b>L</b>	•	
106	Ser	. Lvc	Thr	Glr	Pro	CVS			Thr	Lys	Gly			суя	Asr	n Phe	
197				. 511.	0	70				-1-	75	5		-		80	
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Input Set : A:\50013825\_1.RTF

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203
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                                120
208 Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly
       130
                            135
                                                 140
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214 Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Ser Leu Asp Asp Gln Asp
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217 Asp Leu Leu Gly Leu Asp Ala Ser Glu Val Glu Leu Thr Arg Asn Asn
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                                    185
220 Glu Leu Ile Ala Ile Gly Lys Gly Ser Ser Leu Lys Arg Leu Pro Val
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                            215
226 Gln Lys Cys Ile Val Gln Thr Thr Ser Trp Ser Gln Cys Ser Lys Ser
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229 Cys Gly Thr Gly Ile Ser Thr Arg Val Thr Asn Asp Asn Pro Glu Cys
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232 Arg Leu Val Lys Glu Thr Arg Ile Cys Glu Val Arg Pro Cys Gly Gln
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                                    265
235 Pro Val Tyr Ser Ser Leu Lys Lys Gly Lys Lys Cys Ser Lys Thr Lys
                                280
238 Lys Ser Pro Glu Pro Val Arg Phe Thr Tyr Ala Gly Cys Ser Ser Val
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                            295
                                                 300
241 Lys Lys Tyr Arg Pro Lys Tyr Cys Gly Ser Cys Val Asp Gly Arg Cys
                        310
                                             315
244 Cys Thr Pro Leu Gln Thr Arg Thr Val Lys Met Arg Phe Arg Cys Glu
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                                         330
247 Asp Gly Glu Met Phe Ser Lys Asn Val Met Met Ile Gln Ser Cys Lys
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                                    345
250 Cys Asn Tyr Asn Cys Pro His Pro Asn Glu Ala Ser Phe Arg Leu Tyr
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                                                     365
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260
261
              (C) STRANDEDNESS: single
262
              (D) TOPOLOGY: linear
264
        (ii) MOLECULE TYPE: protein
266
        (ix) FEATURE:
267
              (A) NAME/KEY: CDS
268
              (B) LOCATION: 124..1266
270
        (ix) FEATURE:
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Input Set :  $A: \50013825_1.RTF$ 

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284	CTC	CAC	TTG	ACC	AGG	CTG	GCG	CTC	TCC	ACC	TGC	CCC	GCT	GCC	TGC	CAC	216
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306					100					105					110		
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									GCA								744
	Leu	Thr	Arg		Asn	Glu	Leu	Ile	Ala	Val	Gly	Lys	Gly		Ser	Leu	
330				195					200					205			
									GAG								792
	Lys	Arg		Pro	Val	Phe	Gly		Glu	Pro	Arg	Ile		${ t Tyr}$	Asn	Pro	
334			210					215					220				
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VERIFICATION SUMMARY

DATE: 02/14/2002

PATENT APPLICATION: US/10/053,753

TIME: 16:04:12

Input Set : A:\50013825\_1.RTF

Output Set: N:\CRF3\02142002\J053753.raw

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L:477 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5 L:651 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7

L:886 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=13 L:907 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=14 L:928 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=15

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L:970 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=17